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Product datasheet for RC210436

AVPR1A (NM_000706) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AVPR1A (NM_000706) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AVPR1A
Synonyms:	AVPR1; AVPR V1a; V1aR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210436 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGTCTCTCCGCCGGTCCCGACGCGGGGCCCTCGGGCAACTCCAGCCCATGGTGGCCTCTGGCCACCG
GCGCTGGCAACACAAGCCGGGAGGCCGAAGCCCTCGGGGAGGGCAACGGCCCACCGAGGGACGTGCGCAA
CGAGGAGCTGGCCAAACTGGAGATCGCCGTGCTGGCGGTGACTTTCGCGGTGGCCGTGCTGGGCAACAGC
AGCGTACTGCTGGCTCTGCACCGGACGCCGCGCAAGACGTCCCGCATGCACCTCTTCATCCGACACCTCA
GCCTGGCCGACCTGGCCGTGGCATTCTTCCAGGTGCTGCCGCAAATGTGCTGGGACATCACCTACCGCTT
CCGCGGCCCCGACTGGCTGTGCCGCGTGGTGAAGCACCTGCAGGTGTTCGGCATGTTTGCGTCGGCCTAC
ATGCTGGTAGTCATGACAGCCGACCGCTACATCGCGGTGTGCCACCCGCTCAAGACTCTGCAACAGCCCG
CGCGCCGCTCGCGCCTCATGATCGCGGCCGCCTGGGTGCTGAGCTTCGTGCTGAGCACGCCGCAGTACTT
CGTCTTCTCCATGATCGAGGTGAACAATGTCACCAAGGCCCGCGACTGCTGGGCCACCTTCATCCAGCCC
TGGGGTTCTCGTGCCTACGTGACCTGGATGACGGGCGGCATCTTTGTGGCGCCCGTGGTCATCTTGGGTA
CCTGCTACGGCTTCATCTGCTACAACATCTGGTGCAACGTCCGCGGGAAGACGGCGTCGCGCCAGAGCAA
GGGTGCAGAGCAAGCGGGTGTGGCCTTCCAAAAGGGGTTCCTGCTCGCACCCTGTGTCAGCAGCGTGAAG
TCCATTTCCCGGGCCAAGATCCGCACGGTGAAGATGACTTTTGTGATCGTGACGGCTTACATCGTCTGCT
GGGCGCCTTTCTTCATCATCCAGATGTGGTCTGTCTGGGATCCCATGTCCGTCTGGACCGAATCGGAAAA
CCCTACCATCACCATCACTGCATTACTGGGTTCCTTGAATAGCTGCTGTAATCCCTGGATATACATGTTT
TTTAGTGGCCATCTCCTTCAAGACTGTGTTCAAAGCTTCCCATGCTGCCAAAACATGAAGGAAAAATTCA
ACAAAGAAGATACTGACAGTATGAGCAGAAGACAGACTTTTTATTCTAACAATCGAAGCCCAACAAACAG
TACGGGTATGTGGAAGGACTCGCCTAAATCTTCCAAGTCCATCAAATTCATTCCTGTTTCAACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC210436 protein sequence
Red=Cloning site Green=Tags(s)

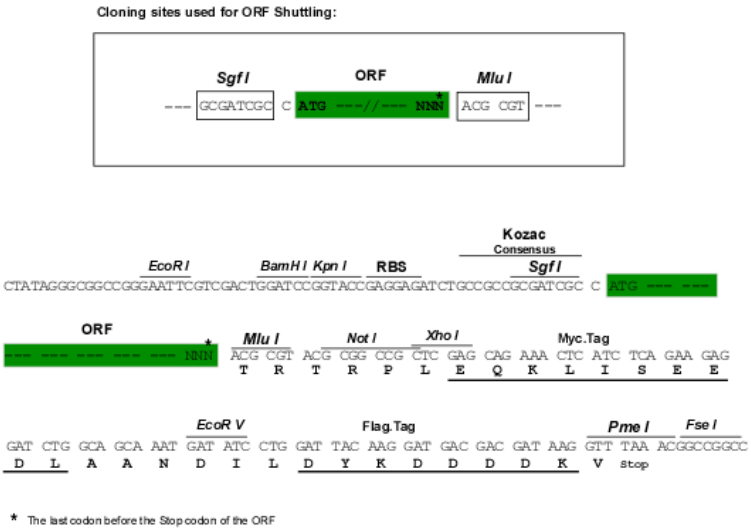
MRLSAGPDAGPSGNSSPWWPLATGAGNTSREAEALGEGNGPPRDVRNEELAKLEIAVLAVTFAVAVLGNS
SVLLALHRTPRKTSRMHLFIRHLSLADLAVAFFQVLPQMCWDITYRFRGPDWLCRVVKHLQVFGMFASAY
MLVVMTADRYIAVCHPLKTLQQPARRSRLMIAAAWVLSFVLSTPQYFVFSMIEVNNVTKARDCWATFIQP
WGSRAYVTWMTGGIFVAPVVILGTCYGFICYNIWCNVRGKTASRQSKGAEQAGVAFQKGFLLAPCVSSVK
SISRAKIRTVKMTFVIVTAYIVCWAPFFIIQMWSVWDPMSVWTESENPTITITALLGSLNSCCNPWIYMF
FSGHLLQDCVQSFPCCQNMKEKFNKEDTDSMSRRQTFYSNNRSPTNSTGMWKDSPKSSKSIKFIPVST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6267_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000706

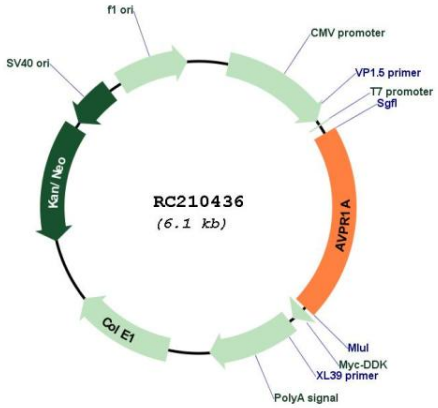
ORF Size: 1254 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

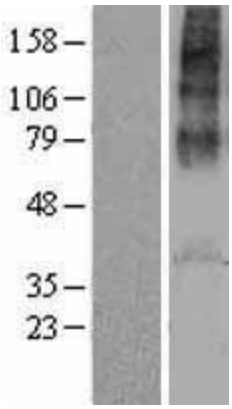
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000706.5
RefSeq Size:	7844 bp
RefSeq ORF:	1257 bp
Locus ID:	552
UniProt ID:	P37288
Cytogenetics:	12q14.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction
MW:	46.8 kDa
Gene Summary:	The protein encoded by this gene acts as receptor for arginine vasopressin. This receptor belongs to the subfamily of G-protein coupled receptors which includes AVPR1B, V2R and OXT receptors. Its activity is mediated by G proteins which stimulate a phosphatidylinositol-calcium second messenger system. The receptor mediates cell contraction and proliferation, platelet aggregation, release of coagulation factor and glycogenolysis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210436



Western blot validation of overexpression lysate (Cat# [LY424557]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210436 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).